GE
Lighting Solutions

GEH-3902H

INSTRUCTIONS
PF-400® Powerflood® Floodlight, Glarefighter™ Powerflood® and Turnpike™ Luminaire

READ THOROUGHLY BEFORE INSTALLING

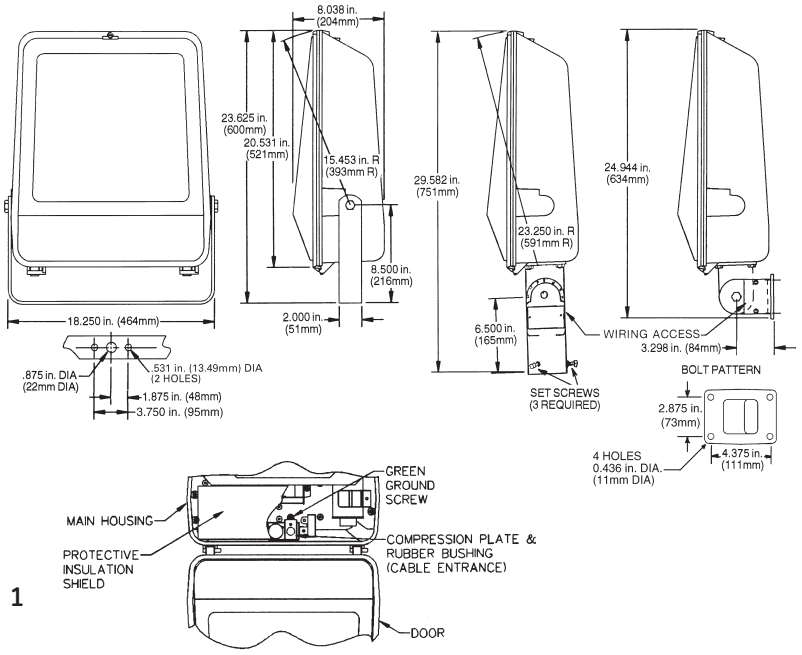
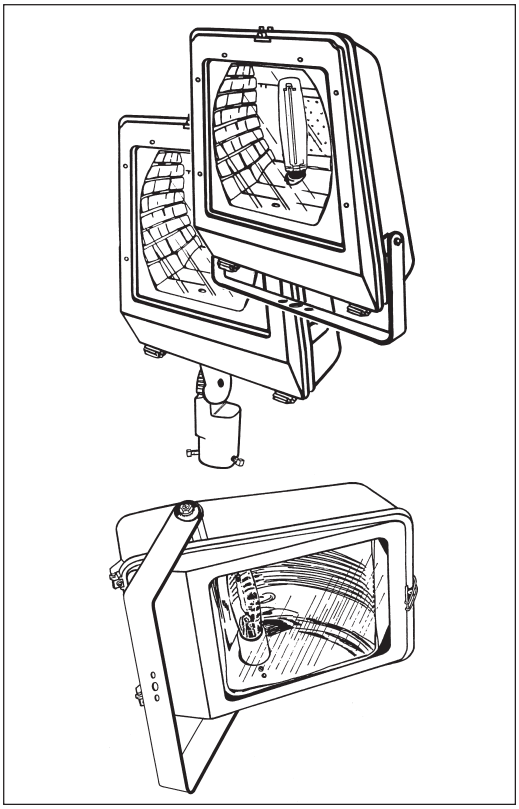


Figure 1



⚠ WARNING

Risk of electric shock
- Turn power off before servicing – see instructions

GENERAL

This luminaire is designed for outdoor lighting applications, and should not be used in areas of limited ventilation, or in high ambient temperature enclosures. Best results will be obtained if installed and maintained according to the following recommendations.

UNPACKING

This luminaire has been properly packed so that no parts should have been damaged during transit. Inspect to confirm.

MOUNTING

⚠ CAUTION

Unit will fall if not installed properly
- Follow installation instructions

This floodlight is provided with either trunnion mounting, pipe mounting, or wall mounting.

NOTE: The unit may be mounted to point from straight up to straight down but in no case may the ballast be located above the optical. To mount from overhead structures, use the top trunnion option.

NOTE: For aimed-up application, remove two screws from rear bottom corners of back housing and reinstall them in front housing rear bottom corners.

1. **TRUNNION MOUNTED UNITS** — Mounted directly on a flat surface. Mounting adapters are available for installation on poles, cross-arms, pipes, etc.
   The trunnion bracket has a clearance hole for a 3/4-inch bolt used for attachment to such mountings. The 3/8-inch holes on either side permit additional anchoring, where required. Tighten side trunnion bolts to 50 -55 foot pounds.

2. **A. NORMAL PIPE MOUNTED UNITS (2G)** — The slipfitter can be mounted on 1-7/8-inch O.D. through 2-3/8-inch O.D. or 2-7/8-inch O.D. through 3-inch O.D. pipes. Three set screws are used to clamp the floodlight securely to the pipe. Tighten set screws to 18 -22 foot pounds.

These instructions do not purport to cover all details or variations in equipment nor to provide for every possible contingency to be met in connection with installation, operation or maintenance. Should further information be desired or should particular problems arise which are not covered sufficiently for the purchaser's purposes, the matter should be referred to GE Lighting Solutions.

B. SPECIAL PIPE MOUNTED UNITS (3G) — For bridge/overpass applications custom factory modification required. Same as above except with three jam nuts and set screws. Tightened to 55-65 foot-pounds.

3. WALL MOUNTED UNITS — The wall mounting plate is provided with four (4) 0.438-inch clearance holes spaced 4.375(H)x2.875(V) inches for mounting.

AIMING

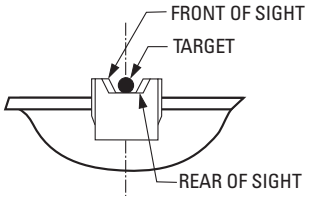


Figure 2

Located on top of the luminaire, above the door locking screw, is a "sight-track" optical sight for point aiming. Align the front and rear sights so that they have equal space showing on either side of the groove and the target centered in the groove. **Sighting is not performed on the Turnpike™ luminaire.**

WIRING

Make all electrical connections in accordance with the National Electrical Code and any applicable local code requirements.

Verify that supply voltage is correct by comparing it to nameplate.

If unit is designated as multivolt or multiwatt, follow specific instruction.

Connect ground lead to the green lead, green ground screw on housing or terminal block provided.

Do not remove insulated connectors from wires not needed for required voltage connection.

When changing voltage on reconnectable units, move only the lead with the insulated connector.

IF SINGLE VOLTAGE:

All single voltage ballasts are pre-wired such that user need only connect the supply conductors.

IF MULTIVOLT: (120/208/240/277 volts)

Connect the ballast lead with the insulated terminal to the desired voltage terminal as indicated on the ballast terminal nameplate.

IF MULTIWATT:

Multiwatt ballasts are available in various combinations of wattage. See wiring instructions on wiring tag inside the luminaire.

TRUNNION MOUNTED UNITS — NOTE: Cable strain relief and sealing are provided by the compression plate and rubber bushing supplied for 9/16-inch O.D. cable. Three-conductor, AWG No. 14 cable is recommended. (Refer to Figure 1.)

1. Open the glass door.

NOTE: Door may be removed by opening approximately 190°, lifting up slightly and sliding to the right.

2. Remove protective insulation shield.

NOTE: On units provided with the "power tray" option, disconnect the two plugs on the top of tray. Loosen screws and remove tray.

3. Insert cable through compression plate and rubber bushing and secure by tightening screw.

4. Make electrical connections.

5. Reposition protective insulation shield. (If power tray, connect both plugs on top of tray after securing the tray.)

6. Close and secure door.

PIPE AND WALL MOUNTED UNITS — Open wiring compartment cover located on the mounting bracket. Make electrical connections and close wiring compartment cover.

NOTE: For multivolt units refer to "Ballast Connections on Multivolt Units".

LAMPS

Use only lamps specified on nameplate. Observe lamp manufacturer's recommendations and restrictions on lamp operation, particularly ballast type, burning position, etc.

Lamp Tightness – Mogul Base Lamp: The lamp should be securely inserted to the NEMA-EEI specified torque of 35 inch-pounds, which is best achieved by very firmly tightening to insure application of sufficient torque. Tightening must be sufficient to fully depress and load the center contact of the socket.

MAINTENANCE

CAUTION

Risk of burn

- Allow lamp/fixture to cool before handling

WARNING

Risk of burn

- Do not touch operating luminaire

Periodic cleaning on the outside of the door glass will ensure operation at maximum optical efficiency. The glass and reflector (if needed) should be cleaned with non-abrasive soap, cleaner, or detergent solutions, rinsed with cold water and wiped dry.

NOTE: Door may be removed by opening approximately 190°, lifting up slightly and sliding to the right.

The light output is also dependent on the age of the lamp. In applications where the light level is critical, it may be desirable to replace lamps before they burn out. The lamp manufacturer can provide data showing how the lamp light output decreases with use.

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